The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

SiO_2	> 58 - 65,
B_2O_3	> 6 - 11.5,
Al_2O_3	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - 1.5,
BaO	> 1.5 - 6,
with SrO + BaO	> 3, and
ZnO	0 - < 2,

and essentially no alkali oxides.

2. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

SiO_2	> 58 $-$ 65,
B_2O_3	> 6 - 11.5,
Al_2O_3	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - < 4,
BaO	> 2.5 - 6,
with SrO + BaO	> 3, and
ZnO	0 - 0.5,

and essentially no alkali oxides.

- 3. (Previously Presented) An aluminoborosilicate glass according to Claim 1, containing at most 5% by weight MgO based on oxide.
- 4. (Previously Presented) An aluminoborosilicate glass according to Claim 1, containing at least 60% by weight SiO₂ based on oxide.
- 5. (Previously Presented) An aluminoborosilicate glass according to Claim 1, containing more than 11% by weight MgO, CaO, SrO and BaO together based on oxide.

6-7. (Cancelled)

- 8. (Original) An aluminoborosilicate glass according to claim 1, having a ratio of MgO/CaO by weight of less than 1.
- 9. (Original) An aluminoborosilicate glass according to claim 1, having a ratio of MgO/CaO by weight of less than 0.7.
- 10. (Previously Presented) An aluminoborosilicate glass according to claim 1, containing at least 5% by weight CaO based on oxide.
- 11. (Previously Presented) An aluminoborosilicate glass according to claim 1, containing > 7 to $\le 11\%$ by weight B_2O_3 based on oxide.
- 12. (Previously Presented) An aluminoborosilicate glass according to claim 1, containing > 2.5% to $\le 5\%$ by weight BaO based on oxide.
 - 13. (Cancelled)
- 14. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

SiO ₂	> 58 - 65,
B_2O_3	>6-11.5,
Al_2O_3	> 14 - 20,
MgO	> 3 - 6,
CaO	>4.5-10,
SrO	0 - 1.5,
BaO	> 1.5 - 6,
with SrO + BaO	> 3, and
ZnO	$> 0 - \le 0.5$

and essentially no alkali oxides.

15. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

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SiO_2	> 58 - 65,
B_2O_3	> 6 - 11.5,
Al_2O_3	> 14 - 20,
MgO	> 3 - 6,
CaO	>4.5-10,
SrO	0 - 1.5,
BaO	> 1.5 - 6,
with SrO + BaO	> 3, and
ZnO	$> 0 - \le 1.5$,

and essentially no alkali oxides.

16. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

SiO ₂	> 58 - 65,
B_2O_3	>6-11.5,
Al_2O_3	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0-1.5,
BaO	> 1.5 - 6,
with SrO + BaO	> 3,
ZnO	0 - < 2,
ZrO_2	≤ 0.5 , and
TiO_2	≤ 0.5 ,

and essentially no alkali oxides.

- 17. (Previously Presented) An aluminoborosilicate glass according to Claim 2, containing at most 5% by weight MgO based on oxide.
- 18. (Previously Presented) An aluminoborosilicate glass according to Claim 2, containing at least 60% by weight SiO₂ based on oxide.
- 19. (Previously Presented) An aluminoborosilicate glass according to Claim 2, containing more than 11% by weight based on oxide MgO, CaO, SrO and BaO is greater together.

20-21. (Cancelled)

- 22. (Original) An aluminoborosilicate glass according to claim 2, having a ratio of MgO/CaO by weight of less than 1.
- 23. (Original) An aluminoborosilicate glass according to claim 2, having a ratio of MgO/CaO by weight of less than 0.7.
- 24. (Previously Presented) An aluminoborosilicate glass according to claim 2, containing at least 5% by weight CaO based on oxide.
- 25. (Previously Presented) An aluminoborosilicate glass according to claim 2, containing > 7 to $\le 11\%$ by weight B_2O_3 based on oxide.
- 26. (Previously Presented) An aluminoborosilicate glass according to claim 2, containing > 2.5% to $\le 5\%$ by weight BaO based on oxide.
 - 27. (Cancelled)
- 28. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

SiO ₂	> 58 - 65,
B_2O_3	> 6 - 11.5,
Al_2O_3	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - < 4,
BaO	> 2.5 - 6,
with SrO + BaO	> 3, and
ZnO	$> 0 - \le 0.5$

and essentially no alkali oxides.

29. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

SiO ₂	> 58 - 65,
B_2O_3	> 6 - 11.5,
Al_2O_3	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - 1.5,
BaO	> 1.5 - 6,
with SrO + BaO	> 3, and
ZnO	$> 0 - \le 2.0$

and essentially no alkali oxides.

30. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

SiO_2	> 58 - 65,
B_2O_3	> 6 - 11.5,
Al_2O_3	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - < 4,
BaO	> 2.5 - 6,
with SrO + BaO	> 3,
ZnO	0 - 0.5,
ZrO_2	\leq 0.5, and
TiO ₂	≤ 0.5 ,

and essentially no alkali oxides.

- 31. (Previously Presented) An aluminosilicate glass according to claim 2, containing up to 3% by weight SrO based on oxide.
- 32. (Original) A substrate glass in thin-film photovoltaics or a display comprising an alkali-free aluminoborosilicate glass according to claim 1.
- 33. (Original) A TFT display or a thin-film solar cell comprising an alkali-free aluminoborosilicate glass according to claim 1.

- 34. (Original) A substrate glass in thin-film photovoltaics or a display comprising an alkali-free aluminoborosilicate glass according to claim 2.
- 35. (Original) A TFT display or a thin-film solar cell comprising an alkali-free aluminoborosilicate glass according to claim 2.

36-47. (Cancelled)

- 48. (Previously Presented)An aluminoborosilicate glass according to claim 1 that has a density of less than 2.6 g/cm³.
- 49. (Previously Presented)An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

SiO ₂	> 58 - 65,
B_2O_3	>6-11.5,
Al_2O_3	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - 1.5,
BaO	> 1.5 - 6,
with SrO + BaO	> 3,
ZnO	0 - < 2,
ZrO_2	0 - 2,
TiO ₂	0 - 2,
with $ZrO_2 + TiO_2$	0 - 2,
As_2O_3	0 - 1.5,
Sb_2O_3	0 - 1.5,
CeO_2	0 - 1.5,
CI ⁻	0-1.5,
F	0 - 1.5,
SO_4^{2-}	0 - 1.5, and
wherein $As_2O_3 + Sb_2O_3 + CeO_2 + Cl^2 + F^2 + SO_4$	

and essentially no alkali oxides.

50. (Cancelled)

51. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

and essentially no alkali oxides.

52-62. (Cancelled)

63. (Currently Amended) An alkali-free aluminoborosilicate glass according to elaim 6 that does not contain SnO₂ or ZrO₂ An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

SiO ₂	> 58 - 65,
B_2O_3	> 6 - 11.5,
Al_2O_3	$\geq 14 - 20$,
<u>MgO</u>	> 3 - 6,
CaO	\geq 4.5 – 10,
<u>SrO</u>	0 - 1.5
BaO	$\geq 1.5 - 6$,
with SrO + BaO	<u>≥ 3,</u>
<u>ZnO</u>	0 - < 2,
ZrO_2	0-2,
<u>TiO</u> ₂	0-2,
with $ZrO_2 + TiO_2$	0-2,
As_2O_3	0 - 1.5,

64. (Currently Amended) An alkali-free aluminoborosilicate glass according to elaim-20 that does not contain SnO₂ or ZrO₂ An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

$\underline{\mathrm{SiO}}_2$	> 58 - 65
$\underline{B_2O_3}$	\geq 6 – 11.5,
$\underline{Al_2O_3}$	$\geq 14 - 20$,
\underline{MgO}	\geq 3 – 6,
<u>CaO</u>	> 4.5 $-$ 10,
<u>SrO</u>	0 - < 4,
BaO	$\geq 2.5 - 6$,
with $SrO + BaO$	<u>> 3,</u>
<u>ZnO</u>	0 - 0.5,
$\underline{\mathrm{ZrO}}_{\underline{2}}$	0-2,
$\underline{\mathrm{TiO}}_{2}$	0-2,
with $ZrO_2 + TiO_2$	0-2,
$\underline{As_2} \underline{O_3}$	0 - 1.5,
$\underline{\mathrm{Sb}_2\mathrm{O}_3}$	0 - 1.5,
$\underline{SnO_2}$	0 - 1.5,
$ \frac{\overline{\text{CeO}_2}}{\underline{\text{Cl'}}} $ $ \underline{\underline{\text{F'}}}{\underline{\text{SO}_4}^{2-}} $	0 - 1.5,
<u>Cl'</u>	0 - 1.5,
<u>F</u>	0 - 1.5,
$\underline{SO_4}^2$	0 - 1.5, and
wherein $As_2O_3 + Sb_2O_3 + SnO_2 + CeO_2 + Cl^2 + F^2 + SO_4^{2-1}$	0 - 1.5,
and essentially no alkali oxides, and does not contain SnO ₂ or ZrO ₂ .	

65. (Currently Amended) An alkali-free aluminoborosilicate glass according to elaim 53 that does not contain SnO₂-or-ZrO₂ An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

SiO ₂	> 58 $-$ 65,
B_2O_3	> 6 - 11.5,
$\underline{Al_2O_3}$	$\geq 14 - 20$,
MgO	$\geq 3 - 6$,
CaO	\geq 4.5 – 10,

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<u>SrO</u>
                                                                             0 - 1.5,
                                                                             > 1.5 - 6
             BaO
             with SrO + BaO
                                                                             > 3,
             ZnO
                                                                             0 - < 2
             ZrO_2
                                                                             0 - 2,
             TiO<sub>2</sub>
                                                                             0 - 2,
             with ZrO_2 + TiO_2
                                                                             0 - 2,
             As_2O_3
                                                                             0 - 1.5,
                                                                             0 - 1.5
             Sb_2O_3
                                                                             0 - 1.5,
             SnO_2
                                                                             0 - 1.5,
             <u>CI</u>-
                                                                             0 - 1.5,
                                                                             0-1.5, and
             wherein As_2O_3 + Sb_2O_3 + SnO_2 + Cl^2 + F^2 + SO_4^{2-}
                                                                             0 - 1.5,
and essentially no alkali oxides, and does not contain SnO<sub>2</sub> or ZrO<sub>2</sub>.
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66. (Currently Amended) An alkali-free aluminoborosilicate glass according to elaim 54 that does not contain SnO₂ or ZrO₂ An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

$\underline{SiO_2}$	> 58 - 65		
$\underline{B_2O_3}$	$\geq 6 - 11.5$,		
$\underline{Al_2O_3}$	$\geq 14 - 20$		
MgO	\geq 3 – 6,		
<u>CaO</u>	\geq 4.5 – 10,		
SrO	0 - < 4,		
BaO	$\geq 2.5 - 6$,		
with $SrO + BaO$	<u>≥ 3,</u>		
<u>ZnO</u>	0 - 0.5,		
$\underline{ZrO_2}$	0 - 2,		
$\underline{\text{TiO}}_2$	0-2,		
with $ZrO_2 + TiO_2$	0-2,		
$\underline{\mathrm{As_2O_3}}$	0 - 1.5,		
$\underline{\mathrm{Sb}_2\mathrm{O}_3}$	0 - 1.5,		
SnO ₂	0 - 1.5,		
Cl' <u>F'</u> SO ₄ ²⁻	0 - 1.5,		
<u>F</u>	0 - 1.5,		
$\underline{SO_4}^{2-}$	0 - 1.5, and		
wherein $As_2O_3 + Sb_2O_3 + SnO_2 + Cl^2 + F^2 + SO_4^{2-1}$			
and essentially no alkali oxides, and does not contain SnO ₂ or ZrO ₂ .			

67. (Currently Amended) An alkali-free aluminoborosilicate glass according to elaim 55 that does not contain SnO₂ or or ZrO₂ An alkali-free aluminoborosilicate glass

consisting of by weight % based on oxide,

SiO ₂	> 58 - 65,
B_2O_3	> 6 - 11.5
$\underline{Al_2O_3}$	$\geq 14 - 20$,
MgO	$\geq 3 - 6$,
<u>CaO</u>	\geq 4.5 – 10,
<u>SrO</u>	0 - 1.5,
BaO	> 1.5 - 6,
with $SrO + BaO$	<u>≥ 3,</u>
<u>ZnO</u>	0 - < 2,
ZrO_2	0-2,
<u>TiO</u> ₂	0 - 2,
with $ZrO_2 + TiO_2$	0 - 2,
As_2O_3	0 - 1.5,
Sb_2O_3	0 - 1.5,
$\underline{SnO_2}$	0 - 1.5,
$\underline{\text{CeO}}_2$	0 - 1.5,
<u>CI.</u>	0 - 1.5,
<u>F</u>	0 - 1.5,
$ \frac{CeO_2}{Cl} $ $ \frac{F}{SO_4^{2-1}} $	0 - 1.5, and
wherein $As_2O_3 + Sb_2O_3 + SnO_2 + CeO_2 + Cl^2 + F^2 + SO_4^2$	0 - 1.5.

wherein $As_2O_3 + Sb_2O_3 + SnO_2 + CeO_2 + Cl^2 + F^2 + SO_4^2 = 0 - 1.5$, and essentially no alkali oxides, and wherein the glass does not contain at least one of ZrO_2 or TiO_2 , and does not contain SnO_2 or ZrO_2 .

68. (Currently Amended) An alkali-free aluminoborosilicate glass according to elaim 56 that does not contain SnO₂ or ZrO₂ An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

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$\underline{\text{SiO}}_2$	> 58 - 65,
B_2O_3	> 6 - 11.5
Al_2O_3	> 14 - 20
MgO	> 3 - 6,
CaO	\geq 4.5 – 10,
<u>SrO</u>	0 - < 4
BaO	$\geq 2.5 - 6$
with SrO + BaO	<u>≥ 3,</u>
<u>ZnO</u>	0 - 0.5,
$\underline{ZrO_2}$	0-2,
<u>TiO</u> ₂	0-2,
with $ZrO_2 + TiO_2$	0-2,
$\underline{As_2O_3}$	0 - 1.5
$\underline{\mathrm{Sb}_2\mathrm{O}_3}$	0 - 1.5
SnO_2	0 - 1.5,
$\underline{\text{CeO}_2}$	0 - 1.5,

 $\frac{\text{Cl}^{-}}{\text{F}^{-}} \qquad \qquad \frac{0-1.5}{0-1.5}, \\ \frac{\text{SO}_{4}^{2-}}{\text{Suppose}^{-}} \qquad \qquad \frac{0-1.5}{0-1.5}, \\ \frac{\text{SO}_{4}^{2-}}{\text{Suppose}^{-}} \qquad \qquad \frac{0-1.5}{0-1.5}, \\ \frac{\text{SO}_{4}^{2-}}{\text{Suppose}^{-}} \qquad \qquad \frac{0-1.5}{0-1.5}, \\ \frac{\text{Suppose}^{-}}{\text{Suppose}^{-}} \qquad \qquad \frac{0-1.5}{0-1.5}, \\ \frac{\text$

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